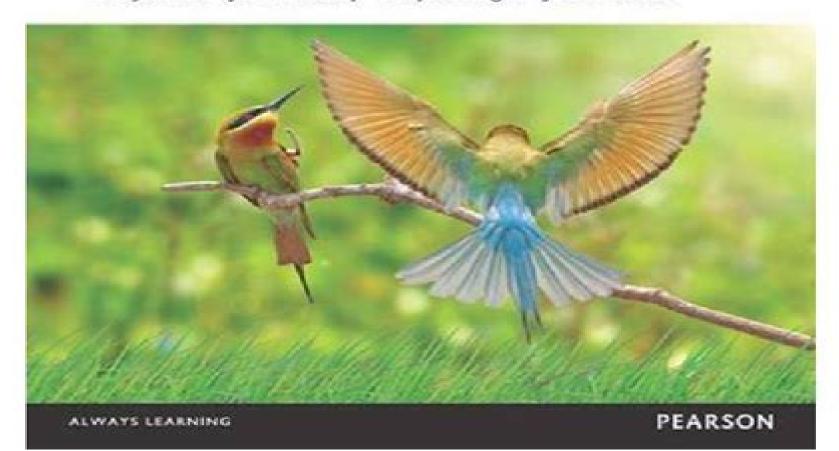


# Campbell Essential Biology with Physiology

FIFTH EDITION

Eric J. Simon • Jean L. Dickey • Kelly A. Hogan • Jane B. Reece



# **Campbell Essential Biology With Physiology 3rd Edition**

Eric Jeffrey Simon, Jane B. Reece, Jean Dickey

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web in case of copper bus bar the current carrying capacity is  $1\ 2\ \text{max}$  the bus bar  $100\text{mm}\ \text{x}25\text{mm}\ \text{x}1\ 5\text{mm}$  is suitable for incomer current  $100\ 25\ 1\ 5\ 1\ 2\ 4500a$  in case of aluminium bus bar the current carrying capacity is  $0\ 8\ \text{max}$  so the bus bar  $100\text{x}25\text{x}1\ 5$  is suitable for  $100\ 25\ 1\ 5\ 0\ 8\ 3000a$  incomer current

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web desire maximum current rating of bus bar 630amp fault current i sc 50ka fault duration t 1sec the operating temperature rises for the busbar is operating temperature of bus bar  $\theta$  85 c final temperature of bus bar during fault  $\theta$  1 185 c temperature rise of bus bar bar during fault  $\theta$  1  $\theta$  1 00 c ambient

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web circuit board pcb this board is then placed into a cutout hole or slot located in the center of a bus bar figure 1 shows the alternate approach using two drv425 devices when a cutout hole or slot is placed in the center of the bus bar the current is split in two equal parts each side of the cutout will generate

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web knowing required ampacity determine possible bus bar dimensions from this table then check the ampacity table to verify that size selected has the necessary ampacity example assume that required ampacity is 185 amps at 30 c rise this table indicates that 1 16 x 1 in size would probably be adequate this is confirmed by the ampacity

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web cross sectional area and the length determine bus bar conductor size cross sectional area 4 is equal to conductor thickness t multiplied by conductor width w a value of approximately 400 circular mils per ampere is a traditional basis for **busbar deisgn guide amphenol interconnect product corp** - Oct 30 2022

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